

Claim Amendments

In the claims:

Claim 1 (original): A process of forming an assembly, the method comprising:

providing a thermosettable material, the material being selected from a sheet molding compound, a bulk molding compound, a phenolic resin or a combination thereof;

molding the thermosettable material to form a carrier member;

applying an activatable material to a surface of the carrier member for forming a reinforcement sealing or baffling member;

placing the reinforcement, sealing or baffling member within a cavity or adjacent to a surface of an article of manufacture, the cavity or surface being defined by one or more walls of a structure of the article of manufacture; and

activating the expandable material to form a foam that is adhered to the carrier member and the surface or walls of the structure of the article of manufacture.

Claim 2 (original): A process as in claim 1 wherein the thermosettable material includes a thermosettable resin that is based upon at least one of a polyester, a vinyl ester, an epoxy or a combination thereof.

Claim 3 (original): A process as in claim 2 wherein the thermosettable material is a molding compound and the thermosettable resin is between about 30% and about 60% by weight of the thermosettable material.

Claim 4 (original): A process as in claim 2 wherein the thermosettable material includes a curing agent selected from a free radical initiator, an organometallic, an oxide catalyst, a peroxide catalyst, a polyhydric initiator or a combination thereof.

Claim 5 (original): A process as in claim 2 wherein the thermosettable material includes a reinforcement material selected from fiber, particulate, fabric, mat, cordage or combinations thereof.

Claim 6 (original): A process as in claim 2 wherein the thermosettable material includes a fibrous reinforcement material selected from polymeric fibers, metal fibers, carbon fibers, graphite fibers, polyester fibers, glass fibers, silicon carbide fibers, alumina fibers, titanium fibers, steel fibers or combinations thereof.

Claim 7 (original): A process as in claim 6 wherein greater than about 50% of the fibers have a length greater than about 1.5 inches.

Claim 8 (original): A process as in claim 1 wherein the activatable material is an expandable material.

Claim 9 (original): A process as in claim 1 wherein the step of molding the thermosettable material includes compressing the molding compound in a die.

Claim 10 (original): A process as in claim 9 wherein the mold is heated to a temperature between about 200 °F and about 450 °F for molding the thermosettable material.

Claims 11-15 (canceled)

Claim 16 (new): A process as in claim 1 wherein:

- i. the article of manufacture is an automotive vehicle and the structure is a pillar of the automotive vehicle;
- ii. the thermosettable material is based upon at least one of a polyester or a vinyl ester;
- iii. the step of molding the material is carried out at an elevated temperature in a heated mold;
- iv. the reinforcement, sealing or baffling member, upon activation and adhesion of the expandable material provides reinforcement to the structure of the automotive vehicle.

Claim 17 (new): A process as in claim 16 wherein the step of applying the activatable material includes:

- i) contacting the activatable material with the surface of the carrier member as a temperature of the carrier member declines from the elevated temperature achieved during the molding step, such contacting thereby softening a portion of the activatable material with the heat of the carrier member to wet the surface of the carrier member; and
- ii) allowing the softened portion of the activatable material to harden and adhere the activatable material to the carrier member.

Claim 18 (new): A process as in claim 17 wherein the activatable material is applied to the carrier member as a plurality of shaped pieces.

Claim 19 (new): A process as in claim 18 wherein the step of applying the activatable material to the carrier member further includes supporting the carrier member with a fixture.

Claim 20 (new): A process as in claim 19 wherein the fixture includes a support member and a support surface, the support surface including a plurality of cavities and wherein the contacting of the activatable material with the surface of the carrier member includes placing the plurality of shaped pieces into the plurality of cavities and supporting the carrier member upon the support member such that the pieces contact the surface of the carrier member.

Claim 21 (new): A process as in claim 20 wherein the fixture includes one or more actuating arms and wherein the step of contacting the activatable material with the surface of the carrier member include supporting the pieces of activatable material on the one or more arms and actuating the arms to contact the pieces with the surface of the carrier member.